AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended) A watermark-based copy management method for digital media copy protection, the method comprising ~~the steps of~~:

receiving an original media data set that includes an original watermark, said original watermark including watermark type, media owner identification information and a first copy control information, ~~which is~~ the first copy control information being set to one of "copy freely", "copy for display only", "copy one generation", "copy never", and "no more copies";

analyzing said first copy control information to determine whether said first copy control information is set to "copy one generation";

playing said original media data set only if said first copy control information is set to "copy one generation";

embedding a player watermark into said played media data set, said player watermark including a second copy control information set to "no more copies" and player identification information; and

transferring said player watermark-embedded media data set to ~~a recording~~ an external device.

2.   (Currently Amended) The method of claim 1, wherein ~~said original watermark further includes watermark type and owner identification information~~ the second copy control information is derived from the first copy control information.

3.   (Currently Amended) The method of claim 1, wherein said ~~player watermark further includes~~ player identification information includes player vendor, model number and unique serial number.

4.   (Currently Amended) A watermark-based copy management method for digital media copy protection, the method comprising ~~the steps of~~:

receiving an original media data set that includes an original watermark, said original watermark including watermark type, media owner identification information and a first copy control information, ~~which is set to one of "copy freely", "copy for display only", "copy one generation", "copy never", and "no more copies"~~ the first copy control information for indicating at least whether a copy is permitted;

analyzing said first copy control information to determine whether said first copy control information ~~is set to "copy one generation"~~ indicates at least that the copy is permitted;

~~playing said original media data set only if said first copy control information is set to "copy one generation"~~ performing an operation according to a result of the analyzing; and

embedding a ~~player~~ device watermark into said ~~played~~ media data set when transferring the said media data set to an external device, said ~~player~~ device watermark including

5

a second copy control information ~~set to "copy for display only"; and transferring said player~~ ~~watermark-embedded media data set to a displaying device~~ derived from the first copy control information and the device watermark further including device identification information.

5.   (Currently Amended) The method of claim 4, wherein ~~said original watermark~~ ~~further includes watermark type and owner identification information~~ said device identification information is used to detect an origin of the media copy, thereby performing a revocation of a compromised device or their key.

6.   (Currently Amended) The method of claim 4, wherein said device ~~player~~ ~~watermark further includes player~~ identification information includes device name, model number and unique serial number.

7.   (Currently Amended) A watermark-based copy management system for digital media copy protection, the system comprising:

a copy control information analyzer analyzing a first copy control information included in an original watermark embedded into an original media data set, said first copy control information being set to one of "copy freely", "copy for display only", "copy one generation", "copy never", and "no more copies", wherein said original watermark further includes watermark type and media owner identification information;

a playing element playing said original media data set only if said first copy control

information is set to "copy one generation";

a watermark generator embedding a player watermark into said played data set,

said player watermark including a second copy control information set to "no more copies" and

player identification information; and

a recording or displaying device recoding recording or displaying said player

watermark-embedded media data set.

8.   (Currently Amended) The system of claim 7, wherein said original watermark

further includes watermark type and owner identification informationthe second copy control

information is derived from the first copy control information.

9.   (Currently Amended) The system of claim 7, wherein said player watermark

further includes player identification information includes player vendor, model number and

unique serial number.

10.   (Currently Amended) A watermark-based copy management system for digital

media copy protection, the system comprising:

a copy control information analyzer analyzing a first copy control information

included in an original watermark embedded into an original media data set, said first copy

control information being set to any one of "copy freely", "copy for display only", "copy one

7

generation", "copy never", and "no more copies" required for determining at least whether a

copy is permitted, wherein said original watermark further includes watermark type and media

owner identification information;

a playingan operation element performing an operation according to an analyzed

result of said copy control information analyzerplaying said original media data set only if said

first copy control information is set to "copy one generation"; and

a watermark generator embedding a player device watermark into said played data

set when transferring said media data set to an external device, said player device watermark

including a second copy control informationset to "copy-for-display only"; and a displaying

device displaying said player watermark embedded media data set derived from the first copy

control information and the device watermark also includes device identification information.

11.   (Currently Amended) The system of claim 10, wherein said original watermark

further includes watermark type and owner identification informationsaid device identification

information is used to detect an origin of the media copy, thereby performing a revocation of a

compromised device or their key.

12.   (Currently Amended) The system of claim 10, wherein said player watermark

further includes player device identification information includes device name, model number

and unique serial number.

8

13.   (New) The system of claim 10, wherein said watermark type is used to determine whether the watermark is original or not.

14.   (New) The system of claim 10, wherein said media owner identification information is used to bind a media owner with the media data set.

15.   (New) The method of claim 4, wherein said watermark type is used to determine whether the watermark is original or not.

16.   (New) The method of claim 4, wherein said media owner identification information is used to bind a media owner with the media data set.